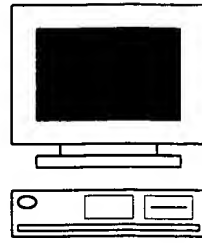
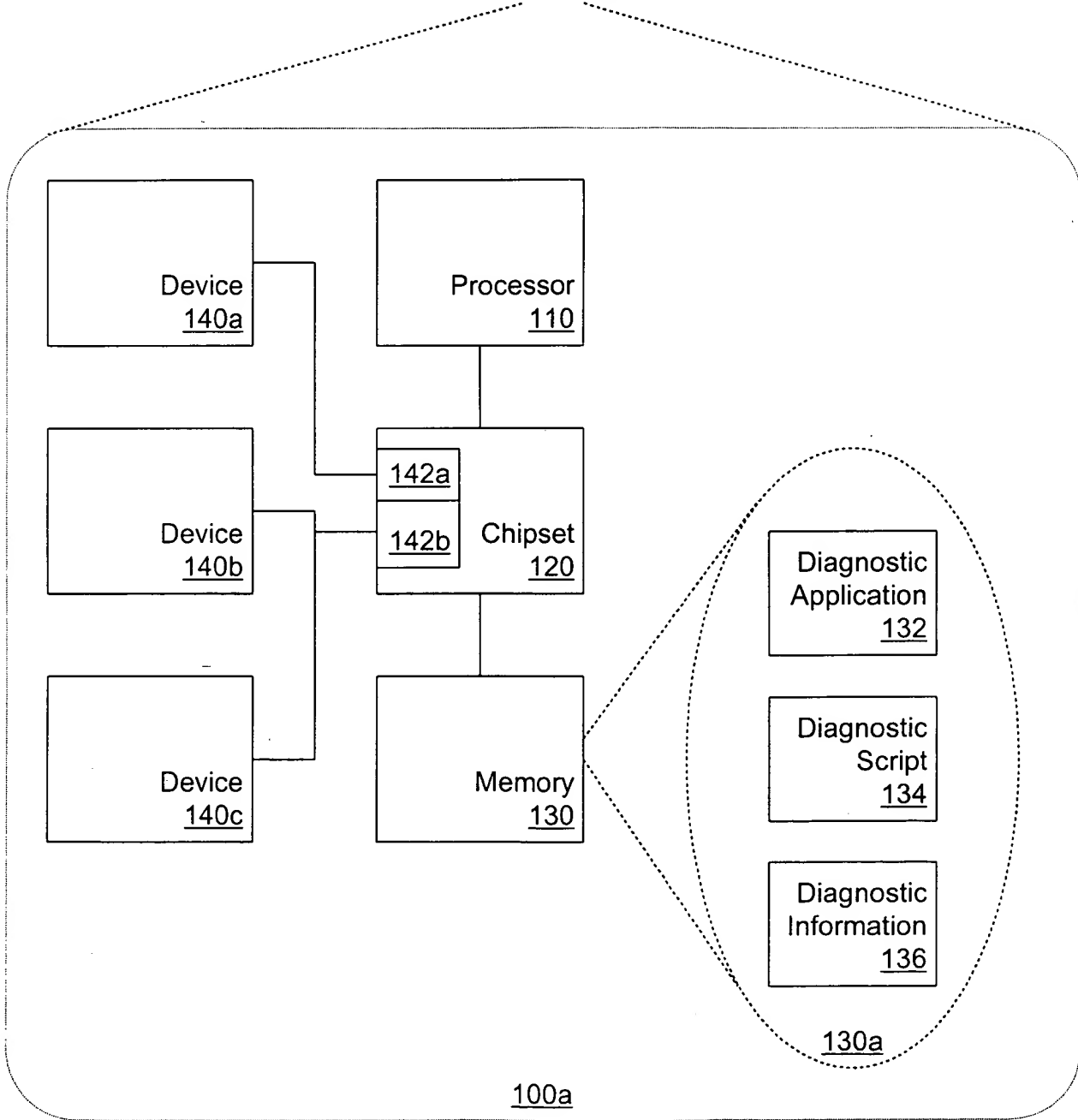


100



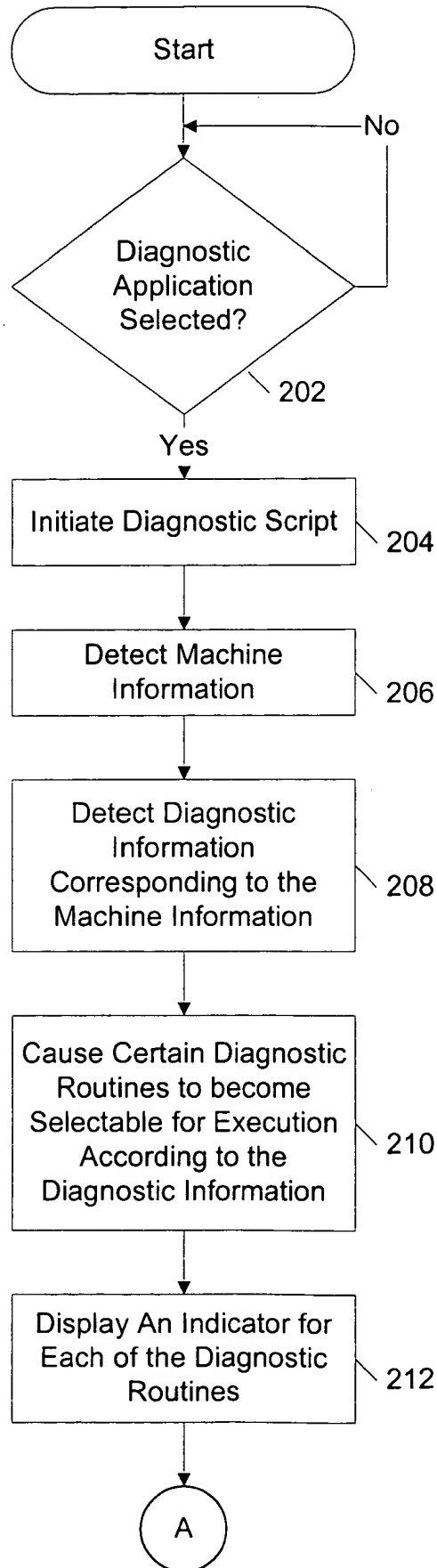
Best Available Copy

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**Fig. 1**

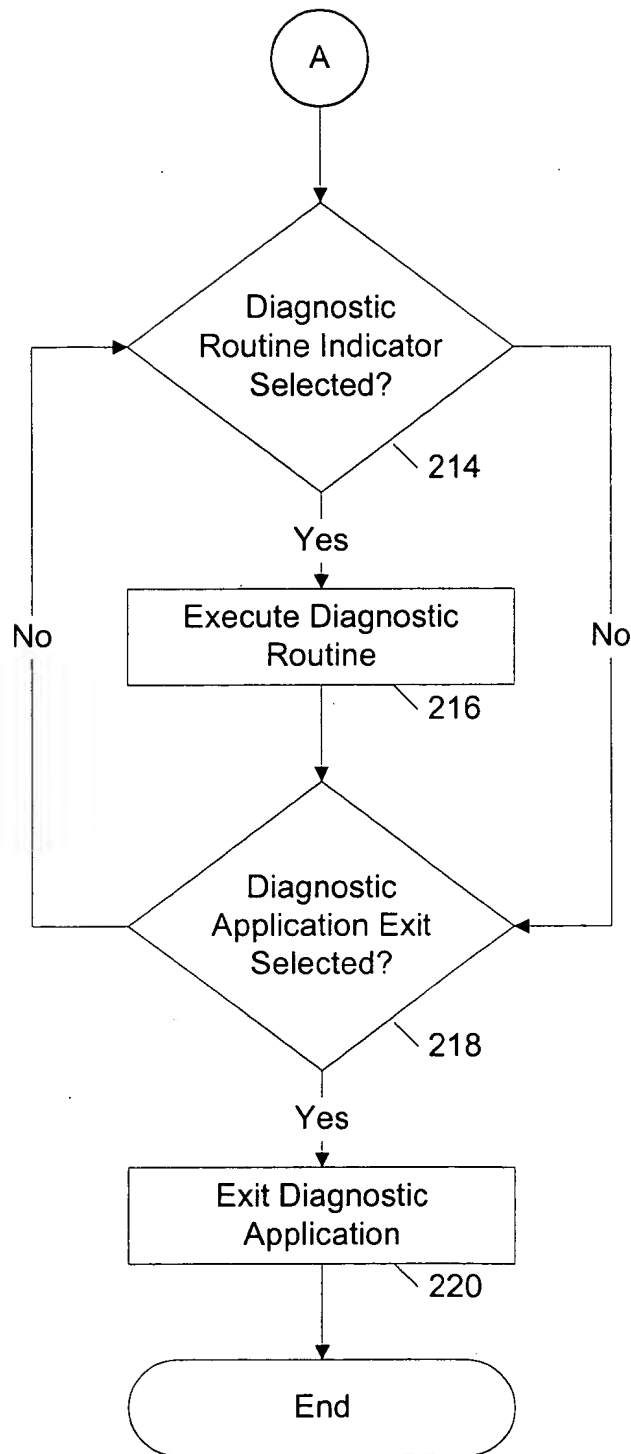
APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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**Fig. 2a**

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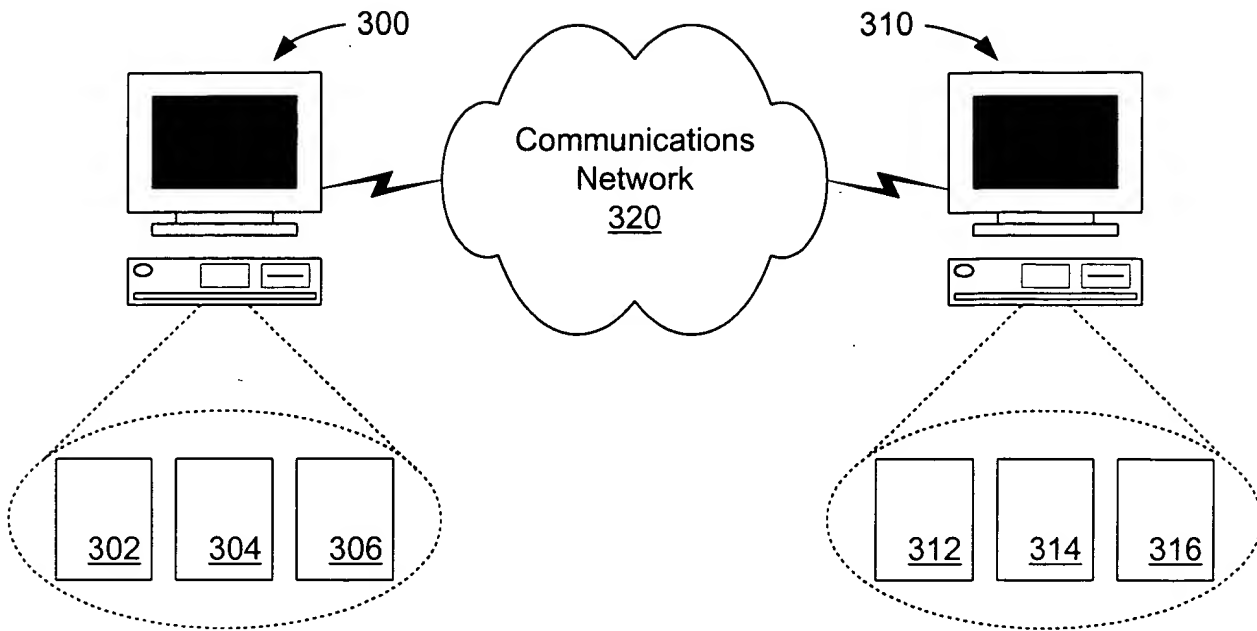
APPROVED	O.G. FIG.	
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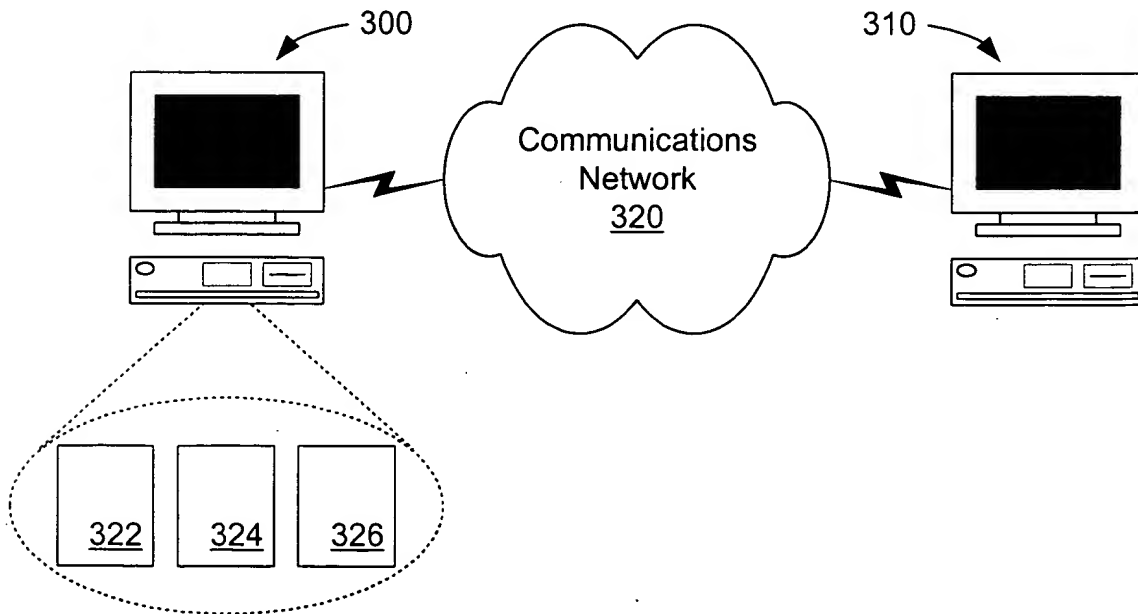
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**Fig. 2b**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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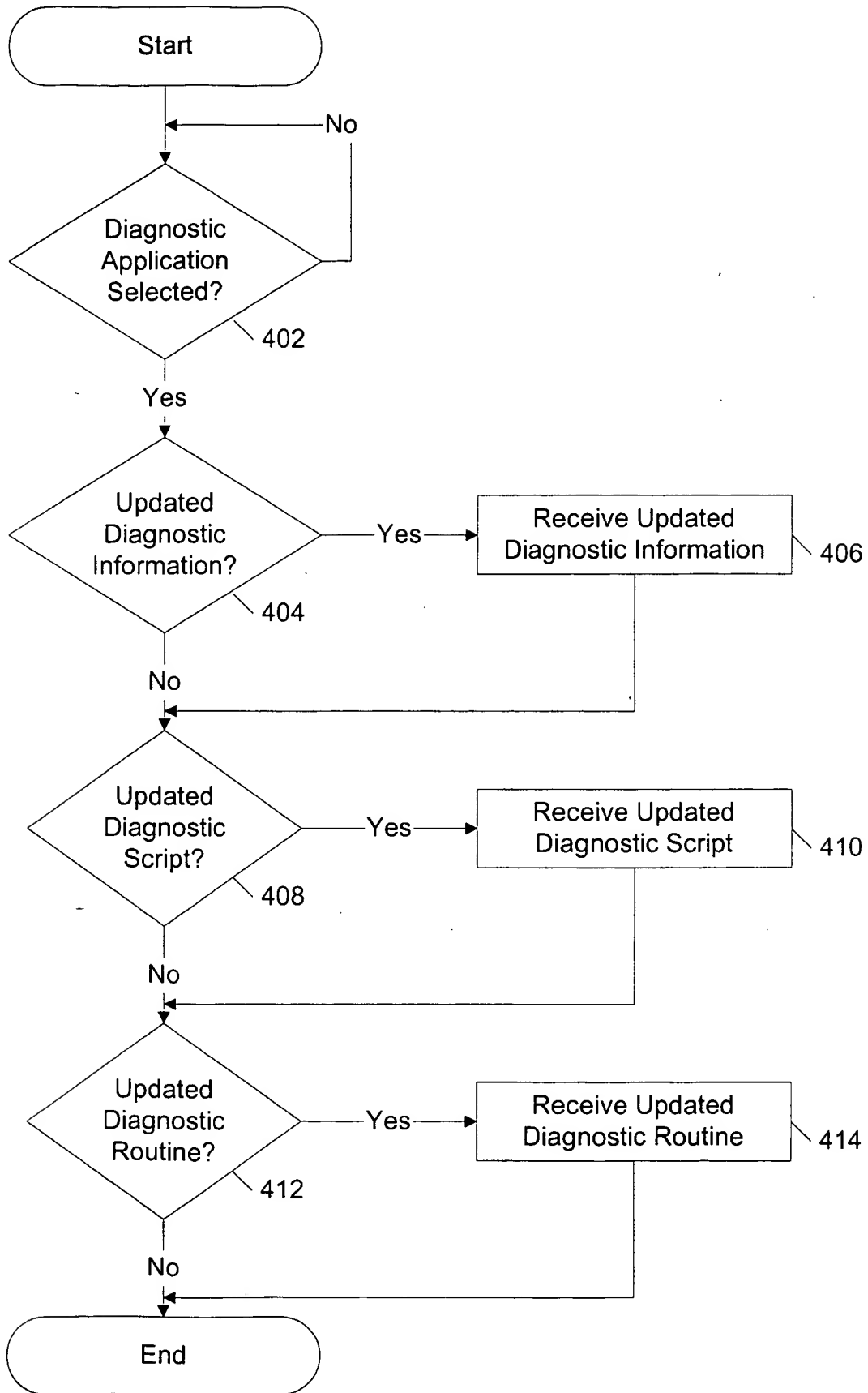


**Fig. 3a**



**Fig. 3b**

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**Fig. 4**

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APPROVED	O.G. FIG.	
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## DIAGCONF.INI File 500

[Win9x] <sup>512</sup>  
 SupportedDiags=AGP|Audio|AVI|CD/DVD-ROM|CMOS|CPU|  
 Extended SMART Drive|Floppy Drive|Hard Drive|Infrared Port|Joystick|Keyboard|  
 Microphone|Modem|Monitor|Mouse|Network Adapter|Parallel Port|PCI|PCMCIA|  
 Printer|SCSI|Serial Port|SMART Drive|Super Disk|System Diagnosis|System Memory|  
 USB|Video Adapter|Zip Drive 510

[WinNT] <sup>522</sup>  
 SupportedDiags=AGP|Audio|AVI|CD/DVD-ROM|CMOS|CPU|Extended SMART Drive|  
 Floppy Drive|Hard Drive|Joystick|Keyboard|Microphone|Modem|Monitor|Mouse|  
 Network Adapter|Parallel Port|Printer|SCSI|Serial Port|SMART Drive|Super Disk|  
 System Diagnosis|System Memory|Tape Backup|Video Adapter|Zip Drive 520

[Win2k] <sup>532</sup>  
 SupportedDiags=AGP|Audio|AVI|CD/DVD-ROM|CMOS|CPU|Extended SMART Drive|  
 Floppy Drive|Hard Drive|Joystick|Keyboard|Microphone|Modem|Monitor|Mouse|  
 Network Adapter|Parallel Port|Printer|SCSI|Serial Port|SMART Drive|Super Disk|  
 System Diagnosis|System Memory|Tape Backup|Video Adapter|Zip Drive|USB 530

[Hard Drive] <sup>540</sup>  
 abstract=HardDisk Drive Diagnostic <sup>542</sup>  
 icon=HardDrive.jpg <sup>544</sup>

[0xBA] <sup>550</sup>  
 ;Code=Mummy  
 ;Audience=Dimension 552  
 ;Computer=Dimension Columbus II  
 Win9xExclude=AVI|Extended SMART Drive|SMART Drive|Monitor|Infrared Port|  
 PCMCIA|Tape Backup 556  
 WinNTExclude=AVI|Extended SMART Drive|SMART Drive|Monitor|Infrared Port|  
 PCMCIA|PCI|USB 558  
 Win2KExclude=AVI|Extended SMART Drive|SMART Drive|Monitor|Infrared Port|  
 PCMCIA|PCI 560 554

**Fig. 5**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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# **Java Script/Methods/Functions: 600**

```
function parseDiagIni (sMachined)
{
```

```
    // *** Get Diagnostic Information File location.
```

```
    var sIniFile = getDiagConfFile ();
```

602

```
    // *** Determine OS platform, a Java method is called which in turn calls a
    Windows API that returns the OS installed.
```

```
    var sOSString = "";
```

```
    if (IsWindowsNT ())
```

```
        sOSString = "WinNT";
```

```
    else if (IsWindows2000 ())
```

```
        sOSString = "Win2K";
```

```
    else if (IsWindows98 () || IsWindows95 ())
```

```
        sOSString = "Win9x";
```

```
    // *** Load list of supported diagnostics for the OS platform from the
    information file.
```

```
    var xSupportedDiags = iniApi.GetEntry (sOSString, "SupportedDiags",
    sIniFile);
```

```
    xSupportedDiags.Print ();
```

```
    if (xSupportedDiags.GetReturnCode () != 0) {
```

```
        DebugPrint ("No SupportedDiags variable for " + sOSString);
```

```
        return;
```

```
    }
```

```
    sSupportedDiags = xSupportedDiags.GetAttribute ("value");
```

```
    DebugPrint ("SupportedDiags = " + sSupportedDiags);
```

```
    var aSupportedDiags = parseLine (sSupportedDiags);
```

**Fig. 6a**

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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**// \*\*\* Load list of unsupported diagnostics from the information file based on machine and OS platform.**

var xExcludeDiags = iniApi.GetEntry (sMachineld, sOSString + "Exclude",  
sIniFile);

xExcludeDiags.Print ();

if (xExcludeDiags.GetReturnCode () == 0) {

DebugPrint("Now entering - excluded diags section - svk ");

sExcludeDiags = xExcludeDiags.GetAttribute ("value");

DebugPrint ("ExcludeDiags = " + sExcludeDiags);

var aExcludeDiags = parseLine (sExcludeDiags);

**// \*\*\* Remove the excluded diagnostics from the supported list.**

for (var i = 0; i < aExcludeDiags.length; i++) {

for (var j = 0; j < aSupportedDiags.length; j++) {

if (aExcludeDiags[i] == aSupportedDiags[j]) {  
aSupportedDiags[j] = "";

}

}

}

}

else {

DebugPrint ("No Exclude list for " + sOSString + " on " + sMachineld);

}

**Fig. 6b**

00632450-080700



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

**// \*\*\* Build list of supported diagnostic and presentation items from the information file.**

```

// Diagnostic|Abstract|Icon File Name||Diagnostic...
aDiagConfData = new Array ();
aDiagConfData[0] = "abstract";
aDiagConfData[1] = "icon";
var sFinalDiagsSupported = "";
var sSeparator = "|";
var sSuperSeparator = "||";
for (var j = 0; j < aSupportedDiags.length; j++) {
    DebugPrint ("Testing " + aSupportedDiags[j]);
    if ("" != aSupportedDiags[j]) {
        var Abstract = "";
        var Icon = "";
        var xDiagConfDataAbs = iniApi.GetEntry (aSupportedDiags[j],
aDiagConfData[0], sIniFile);
        if (xDiagConfDataAbs.GetReturnCode () == 0)
            Abstract = xDiagConfDataAbs.GetAttribute ("value");
        var xDiagConfDataIcon = iniApi.GetEntry (aSupportedDiags[j],
aDiagConfData[1], sIniFile);
        if (xDiagConfDataIcon.GetReturnCode () == 0)
            Icon = xDiagConfDataIcon.GetAttribute ("value");
        sFinalDiagsSupported = sFinalDiagsSupported + aSupportedDiags[j] +
sSeparator + Abstract + sSeparator + Icon + sSuperSeparator;
    }
}
// *** Set the environment global space
iapi.SetGlobalArg ("DellSupportedDiags", sFinalDiagsSupported);

```

**// \*\*\* Load the machine id for the machine under test.**

```
s = new java.lang.StringBuffer (200);
```

**// \*\*\* Call a Java method that extracts the Machine ID from the SMBIOS table**

```

DellAPI.GetMachineID (s);
if (s.toString ().length () > 0) {
    // Set the Machine Id in the following format: 0xFF. This is used to look the
    system up in DiagConf.ini
    g_sMachineId = "0x" + s.toString ();
}

```

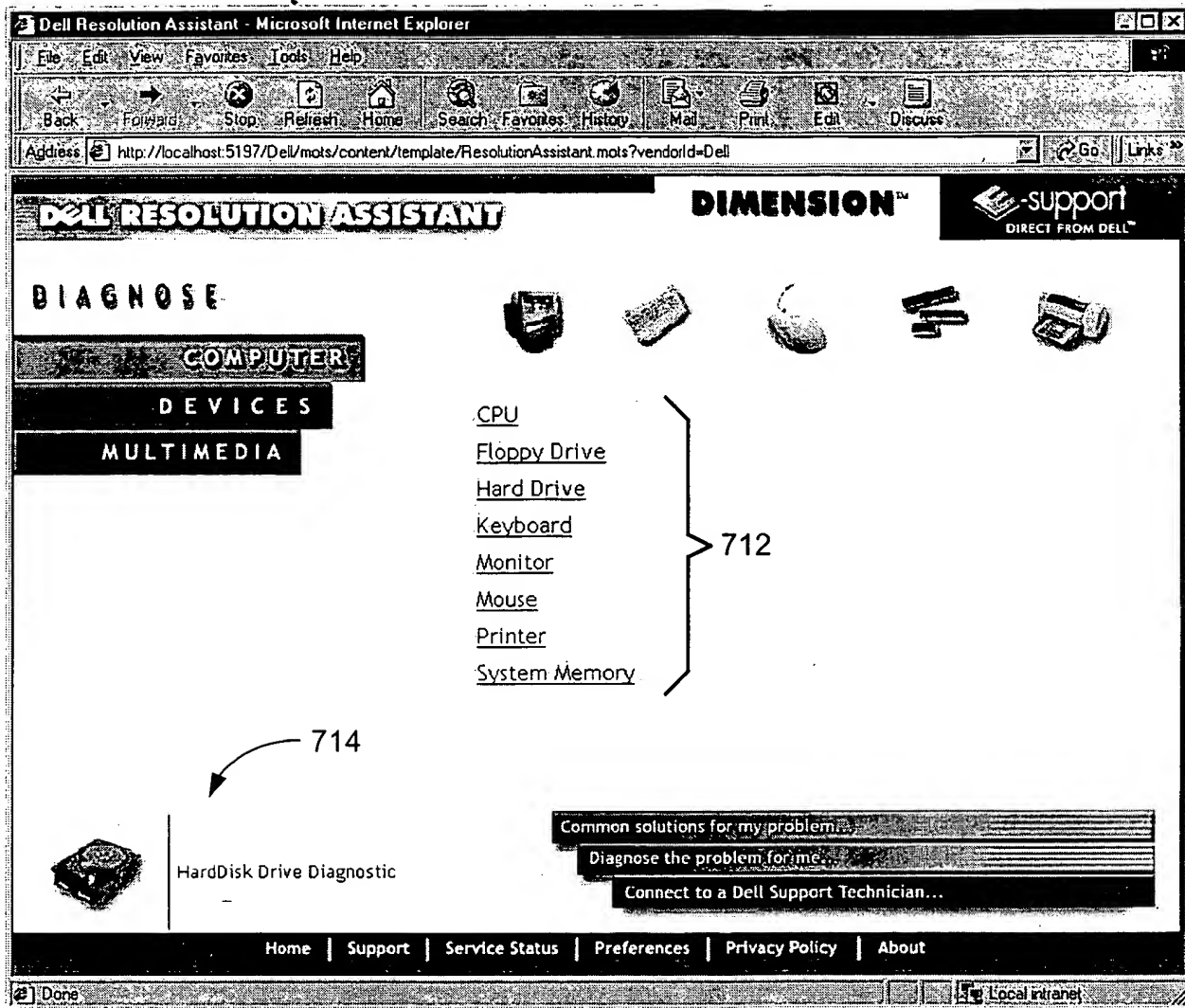
**// \*\*\* Create the list of supported diagnostics and their presentation items.**

```
parseDiagIni (g_sMachineId);
```

**Fig. 6c**



APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		



710 →

**Fig. 7b**

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

Dell Resolution Assistant - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://localhost:5197/Dell/mots/content/template/ResolutionAssistant.mots?vendorId=Dell

DELL RESOLUTION ASSISTANT

DIMENSION™

support  
DIRECT FROM DELL™

## HardDisk Drive Diagnostic

**FAQ's** *Read a frequently asked question about the device or problem.*

- What size hard drive can I add to my Dell Dimension System?
- Why is my hard drive so noisy?
- How do I add a hard drive to my system?

[More FAQ's](#)

☒ In order to be assisted by Online-service, you must first run this diagnostic which will gather all the relevant information that is required by the online technician to process your request.

**OVERVIEW** *Run a diagnostic test on the device.*


This diagnostic consists of four subtests:

- Linear Seek Test — Verifies correct operation of the drive heads
- Random Seek Test — Verifies correct operation of the drive heads
- Funnel Seek Test — Verifies correct operation of the drive heads
- Surface Scan Test — Scans the drive for defective sectors

This diagnostic tests the hard-disk drive controller, the drive mechanism, and the disk surface itself. All installed fixed disks are tested.

NOTE: Running a diagnostic test allows Dell to access information on your computer. If you do not want Dell to access this information, change the Resolution Assistant security settings found under preferences in the bottom navigation bar of this interface.

[Click here to run the diagnostic test.](#)


**BEGIN DIAGNOSTIC**

[Go back to the List of Diagnostics.](#)

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← 722

**Fig. 7c**

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